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14 and ((during or when) with data)	3

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[IBM Technical Disclosure Bulletins](#)

14 and ((during or when) with data)

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<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
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USPT	16 not 15	2	<a href="#">L7</a>
USPT	14 and insert\$3	5	<a href="#">L6</a>
USPT	14 and embed\$4	3	<a href="#">L5</a>
USPT	11 or 5796824.pn. or 5555304.pn. or 5473687.pn. or 5414833.pn. or 5126728.pn.	8	<a href="#">L4</a>
USPT	11 and insert\$3	2	<a href="#">L3</a>
USPT	11 and embed\$4	0	<a href="#">L2</a>
USPT	5392351.pn. or 5761651.pn. or 5832083.pn.	3	<a href="#">L1</a>

**WEST**[Generate Collection](#)

Search Results - Record(s) 1 through 3 of 3 returned.

☐ 1. Document ID: US 5473687 A

L8: Entry 1 of 3

File: USPT

Dec 5, 1995

US-PAT-NO: 5473687

DOCUMENT-IDENTIFIER: US 5473687 A

TITLE: Method for retrieving secure information from a database

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KIMC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	--------	------	-----------	-------

☐ 2. Document ID: US 5414833 A

L8: Entry 2 of 3

File: USPT

May 9, 1995

US-PAT-NO: 5414833

DOCUMENT-IDENTIFIER: US 5414833 A

TITLE: Network security system and method using a parallel finite state machine adaptive active monitor and responder

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KIMC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	--------	------	-----------	-------

☐ 3. Document ID: US 5126728 A

L8: Entry 3 of 3

File: USPT

Jun 30, 1992

US-PAT-NO: 5126728

DOCUMENT-IDENTIFIER: US 5126728 A

TITLE: ADP security device for labeled data

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KIMC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	--------	------	-----------	-------

[Generate Collection](#)

Terms	Documents
14 and ((during or when) with data)	3

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Documents, starting with Document:

[3](#)[Display Format:](#)[TI](#)[Change Format](#)

**WEST**[Generate Collection](#)

Search Results - Record(s) 1 through 2 of 2 returned.

☐ 1. Document ID: US 5832083 A

L7: Entry 1 of 2

File: USPT

Nov 3, 1998

US-PAT-NO: 5832083

DOCUMENT-IDENTIFIER: US 5832083 A

TITLE: Method and device for utilizing data content

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	INDEX	Draw. Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	--------	-------	------------	-------

☐ 2. Document ID: US 5761651 A

L7: Entry 2 of 2

File: USPT

Jun 2, 1998

US-PAT-NO: 5761651

DOCUMENT-IDENTIFIER: US 5761651 A

TITLE: Software charging system and software data utilization permitting device

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	INDEX	Draw. Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	--------	-------	------------	-------

[Generate Collection](#)

Terms	Documents
16 not 15	2

[Display](#)

10

Documents, starting with Document:

2

Display Format:

TI

[Change Format](#)

**WEST**[Generate Collection](#)

Search Results - Record(s) 1 through 3 of 3 returned.

☐ 1. Document ID: US 5473687 A

L8: Entry 1 of 3

File: USPT

Dec 5, 1995

US-PAT-NO: 5473687

DOCUMENT-IDENTIFIER: US 5473687 A

TITLE: Method for retrieving secure information from a database

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	--------	------	-----------	-------

☐ 2. Document ID: US 5414833 A

L8: Entry 2 of 3

File: USPT

May 9, 1995

US-PAT-NO: 5414833

DOCUMENT-IDENTIFIER: US 5414833 A

TITLE: Network security system and method using a parallel finite state machine adaptive active monitor and responder

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	--------	------	-----------	-------

☐ 3. Document ID: US 5126728 A

L8: Entry 3 of 3

File: USPT

Jun 30, 1992

US-PAT-NO: 5126728

DOCUMENT-IDENTIFIER: US 5126728 A

TITLE: ADP security device for labeled data

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	--------	------	-----------	-------

[Generate Collection](#)

Terms	Documents
14 and ((during or when) with data)	3

[Display](#)

10

Documents, starting with Document:

3

S (AUTHOR? OR APPROV?) AND ((COMPOUND? (W2) DOCUMENT) AND (LINK? (W3) (EMBED? (W2) O

Your SELECT statement is:

S (AUTHOR? OR APPROV?) AND ((COMPOUND? (W2) DOCUMENT) AND (LINK? (W3)  
(EMBED? (W2) OBJECT)) OR OLE) AND PD<=970610

Items File

```

-----
121 9: Business & Industry(R) Jul/1994-2003/Mar 07
53 13: BAMP_2003/Jan W4
>>>File 15 processing for PD= : PD=970610
>>>File 15: started at PD=710000 stopped at PD=930107
62 15: ABI/Inform(R) 1971-2003/Mar 08
>>>File 16 processing for PD= : PD=970610
>>>File 16: started at PD=19900101 stopped at PD=19950623
210 16: Gale Group PROMT(R) 1990-2003/Mar 07
>>>File 18 processing for PD= : PD=970610
>>>File 18: started at PD=19860423 stopped at PD=19931110
2 18: Gale Group F&S Index(R) 1988-2003/Mar 06
2 73: EMBASE 1974-2003/Mar W1
33 75: TGG Management Contents(R) 86-2003/Feb W4
4 112: UBM Industry News 1998-2003/Mar 10
1 122: Harvard Business Review 1971-2003/Feb
>>>File 129 processing for PD= : PD=970610
>>>File 129: started at PD=30126 stopped at PD=930816
3 129: PHIND(Archival) 1980-2003/Mar W1
>>>File 132 processing for PD= : PD=970610
>>>File 132: started at PD=850703 stopped at PD=911118
1 132: S&P's Daily News 1985-2003/Mar 07
3 135: NewsRx Weekly Reports 1995-2003/Feb W4
13 147: The Kansas City Star 1995-2003/Mar 09
>>>File 148 processing for PD= : PD=970610
>>>File 148: started at PD=140105 stopped at PD=830728
7 148: Gale Group Trade & Industry DB 1976-2003/Mar 06
>>>File 149 processing for PD= : PD=970610
>>>File 149: started at PD=760100 stopped at PD=830406
1 149: TGG Health&Wellness DB(SM) 1976-2003/Feb W3
Examined 50 files
>>>File 180 processing for PD= : PD=970610
>>>File 180: started at PD=19850102 stopped at PD=19921224
10 180: Federal Register 1985-2003/Mar 07
>>>File 194 processing for PD= : PD=970610
>>>File 194: started at PD=820913 stopped at PD=900601
2 194: FBODaily 1982/Dec-2003/Nov
54 233: Internet & Personal Comp Abs. 1981-2003/Feb
72 256: SoftBase:Reviews,Companies&Prods. 82-2003/Jan
3 264: DIALOG Defense Newsletters 1989-2003/Mar 07
>>>File 275 processing for PD= : PD=970610
>>>File 275: started at PD=140103 stopped at PD=881206
2 275: Gale Group Computer DB(TM) 1983-2003/Mar 06
>>>File 319 processing for PD= : PD=970610
>>>File 319: started at PD=19950130 stopped at PD=900825
1 319: Chem Bus NewsBase 1984-2003/Mar 05
13 387: The Denver Post 1994-2003/Mar 07
8 392: Boston Herald 1995-2003/Mar 07
Examined 100 files
12 427: Fort Worth Star-Telegram 1993-2003/Mar 07
6 433: Charleston Newspapers 1997-2003/Mar 08
>>>File 476 processing for PD= : PD=970610
>>>File 476: started at PD=19820102 stopped at PD=19881015
17 476: Financial Times Fulltext 1982-2003/Mar 10
>>>File 483 processing for PD= : PD=970610
>>>File 483: started at PD=861019 stopped at PD=940620
4 483: Newspaper Abs Daily 1986-2003/Mar 08
>>>File 484 processing for PD= : PD=970610

```

>>>File 484: started at PD=860000 stopped at PD=910622  
3 484: Periodical Abs Plustext\_1986-2003/Mar W1  
>>>File 485 processing for PD= : PD=970610  
>>>File 485: started at PD=130000 stopped at PD=920202  
1 485: Accounting & Tax DB\_1971-2003/Mar W1  
37 486: Press-Telegram\_1992- 2003/Mar 07  
10 487: Columbus Ledger-Enquirer\_1994-2003/Mar 08  
2 488: Duluth News-Tribune\_1995-2003/Mar 07  
>>>File 489 processing for PD= : PD=970610  
>>>File 489: started at PD=900806 stopped at PD=961228  
5 489: The News-Sentinel\_1991-2003/Mar 07  
6 490: Tallahassee Democrat\_1993- 2003/Feb 14  
>>>File 492 processing for PD= : PD=970610  
>>>File 492: started at PD=11/10/99 stopped at PD=910923  
52 492: Arizona Repub/Phoenix Gaz\_19862002/Jan 06  
>>>File 494 processing for PD= : PD=970610  
>>>File 494: started at PD=2/7/2001 stopped at PD=930611  
62 494: St LouisPost-Dispatch\_1988-2003/Mar 09  
>>>File 498 processing for PD= : PD=970610  
>>>File 498: started at PD=12 stopped at PD=920619  
19 498: Detroit Free Press\_1987-2003/Mar 07  
2 501: Extel Intl News Cards\_1995-2002/Mar W4  
1 512: ESPICOM Telecom./Power Rpts\_2002/Jun  
Examined 150 files  
8 532: Bangor Daily News\_1996-2003/Mar 08  
5 536: (GARY) POST-TRIBUNE\_1992-1999/Dec 30  
3 538: Boca Raton News\_1994- 1999/Jul 05  
4 539: Macon Telegraph\_1994-2003/Mar 06  
28 541: SEC Online(TM) Annual Repts\_1997/Sep W3  
75 542: SEC Online(TM) 10-K Reports\_1997/Sep W3  
16 543: SEC Online(TM) 10-Q Reports\_1997/Sep W3  
>>>File 544 processing for PD= : PD=970610  
>>>File 544: started at PD=860811 stopped at PD=941018  
19 544: SEC Online(TM) Proxy Repts\_1997/Sep W3  
>>>File 545 processing for PD= : PD=970610  
>>>File 545: started at PD=820101 stopped at PD=890330  
1 545: Investext(R)\_1982-2003/Mar 10  
>>>File 554 processing for PD= : PD=970610  
>>>File 554: started at PD=19900101 stopped at PD=19951213  
1 554: TFSD J V & Alliances\_1990-2003/Mar 10  
1 560: Spokane Spokesman-Review\_1994-2003/Mar 07  
4 563: Key Note Market Res.\_1986-2001/Aug 03  
18 564: ICC Brit.Co.Ann.Rpts\_1984-2003/Mar 09  
>>>File 570 processing for PD= : PD=970610  
>>>File 570: started at PD=19840102 stopped at PD=19910623  
2 570: Gale Group MARS(R)\_1984-2003/Mar 06  
2 576: Aberdeen American News\_1995-2003/Mar 04  
24 577: Roanoke Times\_1992-2003/Mar 07  
Examined 200 files  
5 582: Augusta Chronicle\_1996- 2003/Mar 09  
4 587: Jane's Defense&Aerospace\_2003/Mar W1  
1 589: FI Defense Market Intelligence\_2003/Mar 03  
>>>File 608 processing for PD= : PD=970610  
>>>File 608: started at PD=108 stopped at PD=970111  
38 608: KR/T Bus.News.\_1992-2003/Mar 10  
14 619: Asia Intelligence Wire\_1995-2003/Mar 09  
3 620: EIU:Viewswire\_2003/Mar 08  
>>>File 621 processing for PD= : PD=970610  
>>>File 621: started at PD=00000000 stopped at PD=19910208  
5 621: Gale Group New Prod.Annou.(R)\_1985-2003/Mar 06  
9 623: Business Week\_1985-2003/Mar 08  
>>>File 624 processing for PD= : PD=970610  
>>>File 624: started at PD=104 stopped at PD=921201  
16 624: McGraw-Hill Publications\_1985-2003/Mar 08  
>>>File 625 processing for PD= : PD=970610

>>>File 625: started at PD=8111 stopped at PD=890425  
1 625: American Banker Publications\_1981-2003/Mar 10  
>>>File 626 processing for PD= : PD=970610  
>>>File 626: started at PD=8111 stopped at PD=890601  
1 626: Bond Buyer Full Text\_1981-2003/Mar 10  
34 627: EIU: Country Analysis\_2003/Feb W4  
5 628: Ctry Risk & Forecasts\_2003/Feb W4  
2 629: EIU:BUS. Newsletters\_2003/Feb W4  
>>>File 631 processing for PD= : PD=970610  
>>>File 631: started at PD=11/14/99 stopped at PD=850519  
51 631: Boston Globe\_1980-2003/Mar 09  
>>>File 633 processing for PD= : PD=970610  
>>>File 633: started at PD=830101 stopped at PD=880823  
49 633: Phil.Inquirer\_1983-2003/Mar 05  
>>>File 634 processing for PD= : PD=970610  
>>>File 634: started at PD=850602 stopped at PD=901209  
21 634: San Jose Mercury\_Jun 1985-2003/Mar 08  
>>>File 635 processing for PD= : PD=970610  
>>>File 635: started at PD=1190 stopped at PD=910826  
58 635: Business Dateline(R)\_1985-2003/Mar 08  
>>>File 636 processing for PD= : PD=970610  
>>>File 636: started at PD=19880101 stopped at PD=19940316  
87 636: Gale Group Newsletter DB(TM)\_1987-2003/Mar 06  
>>>File 637 processing for PD= : PD=970610  
>>>File 637: started at PD=1986 stopped at PD=940608  
41 637: Journal of Commerce\_1986-2003/Mar 10  
>>>File 638 processing for PD= : PD=970610  
>>>File 638: started at PD=25, stopped at PD=920701  
46 638: Newsday/New York Newsday\_1987-2003/Mar 09  
>>>File 640 processing for PD= : PD=970610  
>>>File 640: started at PD=850209 stopped at PD=930621  
31 640: San Francisco Chronicle\_1988-2003/Mar 09  
>>>File 641 processing for PD= : PD=970610  
>>>File 641: started at PD=890523 stopped at PD=941109  
66 641: Rocky Mountain News\_Jun 1989-2003/Mar 08  
>>>File 642 processing for PD= : PD=970610  
>>>File 642: started at PD=11/04/98 stopped at PD=930610  
43 642: The Charlotte Observer\_1988-2003/Mar 09  
8 643: Grand Forks Herald\_1995-2003/Mar 09  
4 644: (Boulder) Daily Camera\_1995-2003/Mar 07  
Examined 250 files  
11 645: Contra Costa Papers\_1995- 2003/Mar 08  
320 647: CMP Computer Fulltext\_1988-2003/Feb W3  
3 648: TV and Radio Transcripts\_1997-2003/Mar W1  
>>>File 649 processing for PD= : PD=970610  
>>>File 649: started at PD=830104 stopped at PD=891231  
15 649: Gale Group Newswire ASAP(TM)\_2003/Mar 06  
>>>File 660 processing for PD= : PD=970610  
>>>File 660: started at PD=901001 stopped at PD=960721  
26 660: Federal News Service\_1991-2002/Jul 02  
1 667: ITAR/TASS News\_1996-1999/May 26  
23 696: DIALOG Telecom. Newsletters\_1995-2003/Mar 08  
>>>File 701 processing for PD= : PD=970610  
>>>File 701: started at PD=5/12/00 stopped at PD=930929  
25 701: St Paul Pioneer Pr Apr\_1988-2003/Mar 07  
>>>File 702 processing for PD= : PD=970610  
>>>File 702: started at PD=801018 stopped at PD=880603  
58 702: Miami Herald\_1983-2003/Mar 07  
>>>File 703 processing for PD= : PD=970610  
>>>File 703: started at PD=880531 stopped at PD=951205  
58 703: USA Today\_1989-2003/Mar 07  
>>>File 704 processing for PD= : PD=970610  
>>>File 704: started at PD=890101 stopped at PD=940624  
46 704: (Portland)The Oregonian\_1989-2003/Mar 08  
>>>File 706 processing for PD= : PD=970610

>>>File 706: started at PD=10100 stopped at PD=940611  
267 706: (New Orleans)Times Picayune\_1989-2003/Mar 08  
>>>File 707 processing for PD= : PD=970610  
>>>File 707: started at PD=19333333 stopped at PD=940510  
36 707: The Seattle Times\_1989-2003/Mar 09  
>>>File 708 processing for PD= : PD=970610  
>>>File 708: started at PD=6XSECTION: stopped at PD=940618  
13 708: Akron Beacon Journal\_1989-2003/Mar 06  
>>>File 709 processing for PD= : PD=970610  
>>>File 709: started at PD=14 stopped at PD=940618  
35 709: Richmond Times-Disp.\_1989-2003/Mar 08  
>>>File 710 processing for PD= : PD=970610  
>>>File 710: started at PD=880601 stopped at PD=931205  
30 710: Times/Sun.Times(London)\_Jun 1988-2003/Mar 10  
>>>File 711 processing for PD= : PD=970610  
>>>File 711: started at PD=880919 stopped at PD=941117  
41 711: Independent(London)\_Sep 1988-2003/Mar 08  
>>>File 712 processing for PD= : PD=970610  
>>>File 712: started at PD=11 stopped at PD=940616  
51 712: Palm Beach Post\_1989-2003/Mar 08  
>>>File 713 processing for PD= : PD=970610  
>>>File 713: started at PD=880410 stopped at PD=940606  
146 713: Atlanta J/Const.\_1989-2003/Mar 09  
>>>File 714 processing for PD= : PD=970610  
>>>File 714: started at PD=900903 stopped at PD=960305  
71 714: (Baltimore) The Sun\_1990-2003/Mar 08  
10 715: Christian Sci.Mon.\_1989-2003/Mar 10  
>>>File 716 processing for PD= : PD=970610  
>>>File 716: started at PD=881210 stopped at PD=940622  
31 716: Daily News Of L.A.\_1989-2003/Mar 07  
>>>File 717 processing for PD= : PD=970610  
>>>File 717: started at PD=890101 stopped at PD=950715  
68 717: The Washington Times\_Jun 1989-2003/Mar 07  
>>>File 718 processing for PD= : PD=970610  
>>>File 718: started at PD=22 stopped at PD=960411  
26 718: Pittsburgh Post-Gazette\_Jun 1990-2003/Mar 10  
>>>File 719 processing for PD= : PD=970610  
>>>File 719: started at PD=400100 stopped at PD=910819  
16 719: (Albany) The Times Union\_Mar 1986-2003/Mar 07  
>>>File 720 processing for PD= : PD=970610  
>>>File 720: started at PD=18 stopped at PD=930521  
5 720: (Columbia) The State\_Dec 1987-2003/Mar 09  
>>>File 721 processing for PD= : PD=970610  
>>>File 721: started at PD=11/11/1999 stopped at PD=950524  
66 721: Lexington Hrld.-Ldr.\_1990-2003/Mar 07  
>>>File 722 processing for PD= : PD=970610  
>>>File 722: started at PD=900327 stopped at PD=960815  
38 722: Cincinnati/Kentucky Post\_1990-2003/Mar 06  
>>>File 723 processing for PD= : PD=970610  
>>>File 723: started at PD=4/13/98 stopped at PD=950622  
21 723: The Wichita Eagle\_1990-2003/Mar 07  
>>>File 724 processing for PD= : PD=970610  
>>>File 724: started at PD=890101 stopped at PD=940623  
76 724: (Minneapolis)Star Tribune\_1989-1996/Feb 04  
Examined 300 files  
5 726: S.China Morn.Post\_1992--2003/Mar 07  
>>>File 727 processing for PD= : PD=970610  
>>>File 727: started at PD=107280 stopped at PD=950526  
245 727: Canadian Newspapers\_1990-2003/Mar 10  
21 728: Asia/Pac News\_1994-2003/Mar W1  
>>>File 731 processing for PD= : PD=970610  
>>>File 731: started at PD=65BRUARY stopped at PD=890821  
13 731: Philad.Dly.News\_1983- 2003/Mar 05  
>>>File 732 processing for PD= : PD=970610  
>>>File 732: started at PD=900611 stopped at PD=960213



```

33 732: San Francisco Exam._1990- 2000/Nov 21
>>>File 733 processing for PD= : PD=970610
>>>File 733: started at PD=15 stopped at PD=950617
25 733: The Buffalo News_1990- 2003/Mar 08
>>>File 734 processing for PD= : PD=970610
>>>File 734: started at PD=4 2002 stopped at PD=960316
38 734: Dayton Daily News_Oct 1990- 2003/Mar 07
>>>File 735 processing for PD= : PD=970610
>>>File 735: started at PD=25UARY stopped at PD=950407
75 735: St. Petersburg Times_1989- 2000/Nov 01
>>>File 736 processing for PD= : PD=970610
>>>File 736: started at PD=891019 stopped at PD=950620
23 736: Seattle Post-Int._1990-2003/Mar 08
>>>File 738 processing for PD= : PD=970610
>>>File 738: started at PD=900101 stopped at PD=950627
18 738: (Allentown) The Morning Call_1990-2003/Mar 08
>>>File 739 processing for PD= : PD=970610
>>>File 739: started at PD=900101 stopped at PD=950628
35 739: The Fresno Bee_1990-2003/Mar 07
>>>File 740 processing for PD= : PD=970610
>>>File 740: started at PD=900627 stopped at PD=951217
517 740: (Memphis)Comm.Appeal_1990-2003/Mar 08
>>>File 741 processing for PD= : PD=970610
>>>File 741: started at PD=11/30/02 stopped at PD=960217
39 741: (Norfolk)Led./Pil._1990-2003/Mar 08
>>>File 742 processing for PD= : PD=970610
>>>File 742: started at PD=11 stopped at PD=951022
25 742: (Madison)Cap.Tim/Wi.St.J_1990-2003/Mar 08
>>>File 743 processing for PD= : PD=970610
>>>File 743: started at PD=19891300 stopped at PD=940730
29 743: (New Jersey)The Record_1989-2003/Mar 07
72 744: (Biloxi) Sun Herald_1995-2003/Mar 02
7 748: Asia/Pac Bus. Jrnls_1994-2003/Mar 06
1 754: IPO Maven_1994-2000/Jul
20 755: New Zealand Newspapers_1995-2003/Mar 09
1 761: Datamonitor Market Res._1992-2003/Mar
8 765: Frost & Sullivan_1992-1999/Apr
2 766: (R)Kalorama Info Market Res._1993-2000/Aug
22 781: ProQuest Newsstand_1998-2003/Mar 07
1 788: (Myrtle Beach) The Sun News_1996-2003/Mar 05
>>>File 810 processing for PD= : PD=970610
>>>File 810: started at PD=850116 stopped at PD=911127
17 810: Business Wire_1986-1999/Feb 28
>>>File 813 processing for PD= : PD=970610
>>>File 813: started at PD=100000 stopped at PD=900920
9 813: PR Newswire_1987-1999/Apr 30
Examined 350 files
8 816: Canada NewsWire_1996-1999/Jun 24
2 818: Xinhua News_1996-1999/May 26
7 861: UPI News_1996-1999/May 27
18 929: Albuquerque Newspapers_1995-2003/Mar 09
10 980: Sarasota Herald-Tribune_1996-2003/Mar 09

```

143 files have one or more items; file list includes 357 files.  
 One or more terms were invalid in 182 files.

WEST

End of Result Set



Generate Collection

L8: Entry 3 of 3

File: USPT

Jun 30, 1992

DOCUMENT-IDENTIFIER: US 5126728 A  
TITLE: ADP security device for labeled data

BSPR:

2:12-49  
The labeling method herein described can also be an effective security tool for software developers working within a computing environment where several levels of labeled data are handled. Engineers developing software for these multi-level systems are required to design tests within their software that will adequately test the data as it is processed, and verify that the data matches all access rights in effect at that point in time. This can be a difficult problem for a programmer, since the data can not usually be analyzed by its content to resolve how it should be protected. The program data, when retrieved, are provided with a label for the entire contents of the package that the program must accept as accurate. It is during the attempt to retrieve data that most access restriction schemes are applied. After the delivery process starts, there is no way for a process to verify that the following blocks of data being delivered are in fact in agreement with the original label. If some retrieval failure occurs the program can not evaluate the data to determine if the label/object integrity is still intact. With no way of determining the security level of the data itself, a non-valid label can cause security failures within a trusted process. If the given label for an object is stored in a file header, or some other location outside the real data, the options available to a programmer to verify that the label is correct for a given object are limited. The ratio of the amount of data protected per label is indicative of the level of risk of a label compare failure. Vastly increasing the labeling within a system would multiply the opportunity to apply security procedures and reduce the level of loss for a single label/object compare failure. The invention described herein vastly increases the labeling within a system and provides a means of limiting losses due to a label/object failure to 79 characters or less. The system described herein may be an adjunct to exiting security methods with little or no re-engineering of the system.

**WEST****End of Result Set****Generate Collection**

L5: Entry 3 of 3

File: USPT

Jun 30, 1992

US-PAT-NO: 5126728

DOCUMENT-IDENTIFIER: US 5126728 A

TITLE: ADP security device for labeled data

DATE-ISSUED: June 30, 1992

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hall; Donald R.	Arlington	VA	22201	N/A

APPL-NO: 7/ 362521

DATE FILED: June 7, 1989

INT-CL: [5] H04K 9/00, G06F 12/14, G06F 7/02

US-CL-ISSUED: 340/825.3; 380/4, 364/DIG.2, 364/943.1, 364/918.7

US-CL-CURRENT: 340/825.3; 713/153, 713/160, 713/201

FIELD-OF-SEARCH: 364/200, 364/900, 380/4, 380/25, 340/825.3, 340/825.31, 340/825.34

REF-CITED:

U.S. PATENT DOCUMENTS

**Search Selected****Search ALL**

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> 3508205	April 1970	Kubie	364/200
<input type="checkbox"/> 3800288	March 1974	Russell et al.	364/200
<input type="checkbox"/> 3806882	April 1974	Clarke	364/200
<input type="checkbox"/> 3872444	March 1975	Cleveland et al.	364/200
<input type="checkbox"/> 3911404	October 1975	O'Neill, Jr.	364/900
<input type="checkbox"/> 3921148	November 1975	Ophir et al.	364/900
<input type="checkbox"/> 3956739	May 1976	Ophir et al.	364/900
<input type="checkbox"/> 3971000	July 1976	Cromwell	364/200
<input type="checkbox"/> 4047248	September 1977	Lyman et al.	364/900
<input type="checkbox"/> 4057849	November 1977	Ying et al.	364/900
<input type="checkbox"/> 4128874	December 1978	Pertl et al.	364/200
<input type="checkbox"/> 4241415	December 1980	Masaki et al.	364/900
<input type="checkbox"/> 4244049	January 1981	York et al.	364/900
<input type="checkbox"/> 4319336	March 1982	Anderson et al.	364/900
<input type="checkbox"/> 4354252	October 1982	Lamb et al.	364/900
<input type="checkbox"/> 4434471	February 1984	Hildinger	364/900
<input type="checkbox"/> 4456969	June 1984	Herzik et al.	364/900
<input type="checkbox"/> 4459049	July 1984	Howell et al.	364/900
<input type="checkbox"/> 4462701	July 1984	Czyszczewski et al.	364/900
<input type="checkbox"/> 4463444	July 1984	Daniels et al.	364/900
<input type="checkbox"/> 4464730	August 1984	Lawrence et al.	364/900
<input type="checkbox"/> 4484306	November 1984	Kulczycky et al.	364/900
<input type="checkbox"/> 4574363	March 1986	Carlgren et al.	364/900
<input type="checkbox"/> 4628479	December 1986	Borg et al.	364/900
<input type="checkbox"/> 4707801	November 1987	Barnes et al.	364/900
<input type="checkbox"/> 4864494	September 1989	Kobus, Jr.	364/200

ART-UNIT: 237

PRIMARY-EXAMINER: Shaw; Gareth D.

ASSISTANT-EXAMINER: Fagan; Matthew C.

ATTY-AGENT-FIRM: Fisher, Christen &amp; Sabol

## ABSTRACT:

A data processing security device, attached to computing equipment, inserts labels into a data stream that indicate security controls for the data. The security device may also be configured to detect security labels within a data stream and inhibit the flow of data. It also may replace data within a data stream if it detects labeled fields which indicate that privacy should be imposed.

24 Claims, 6 Drawing figures

**WEST****End of Result Set****Generate Collection**

L5: Entry 3 of 3

File: USPT

Jun 30, 1992

DOCUMENT-IDENTIFIER: US 5126728 A  
TITLE: ADP security device for labeled data

**DEPR:**

The preferred application of the invention consists of embedding labels within records or documents relative to the position of new line characters within character data, the labels representing the level of protection assigned to the data. This labeling technique assures that the data is labeled at least once per line within the body of the data.

**DEPR:**

Several embodiments of the control device are possible and include various circuitry for implementing the detection. A simple version of the device may use a configuration of logic gates that are designed to detect a limited set of protection codes and open the line when found. Another embodiment uses an embedded micro controller that executes software instructions retrieved from its internal memory. The micro-controller is programmed to provide various levels of protection and can receive an initialization of the protection codes to be put in effect for a session at the session start up time. It is also possible to include most of the component parts of this invention in an Application Specific Integrated Circuit that will reduce the size and component count of this device further. Customizing an integrated circuit to a specialized application, such as this device, is a possibility but requires a large investment and market research.

**WEST**☐ **Generate Collection**

L5: Entry 1 of 3

File: USPT

Dec 5, 1995

US-PAT-NO: 5473687

DOCUMENT-IDENTIFIER: US 5473687 A

TITLE: Method for retrieving secure information from a database

DATE-ISSUED: December 5, 1995

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lipscomb; Thomas H.	New York	NY	N/A	N/A
Nagel; Robert H.	New York	NY	N/A	N/A

## ASSIGNEE INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Infosafe Systems, Inc.	New York	NY	N/A	N/A	02

APPL-NO: 8/ 174741

DATE FILED: December 29, 1993

INT-CL: [6] H04L 9/00

US-CL-ISSUED: 380/4

US-CL-CURRENT: 705/51

FIELD-OF-SEARCH: 380/4, 380/46

## REF-CITED:

## U.S. PATENT DOCUMENTS

☐ **Search Selected**☐ **Search ALL**

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> 4994008	July 1990	Piosenka et al.	380/46
<input type="checkbox"/> 5195136	March 1993	Hardy et al.	380/46

ART-UNIT: 222

PRIMARY-EXAMINER: Cangialosi; Salvatore

ATTY-AGENT-FIRM: Milde, Jr.; Karl F.

## ABSTRACT:

A system for retrieving a packet of informational digital data which is stored on a secure storage medium. The informational data packet (IDP) is read from the secure storage medium and then expanded in length to form a sequence of digital data which is so large as to be inconvenient for permanent storage.

18 Claims, 6 Drawing figures

**WEST**

Generate Collection

L8: Entry 1 of 3

File: USPT

Dec 5, 1995

DOCUMENT-IDENTIFIER: US 5473687 A

TITLE: Method for retrieving secure information from a database

CLPR:

2. The method defined in claim 1, wherein said first sequence of digital data is embedded in a different way during each successive execution of said expanding step.

**WEST**

Generate Collection

L5: Entry 1 of 3

File: USPT

Dec 5, 1995

DOCUMENT-IDENTIFIER: US 5473687 A

TITLE: Method for retrieving secure information from a database

DEPR:

6:61-65  
According to a preferred feature of the present invention, an item of data is expanded by embedding it into a series of pseudorandom digital data of suitable, expanded length so that the resulting sequence of digital data (exploded data item) cannot be compressed using a data compressing algorithm. This immunity from data compression relies on the fact that it is impossible to predict the value of any given bit in the final sequence of digital data, given the other bits in the sequence.

DEPR:

7:17-22  
Finally, to further prevent an unauthorized user from extracting the meaningful data from the pseudorandom data, the data item is preferably embedded in the series of pseudorandom data a different way each time the data item is expanded. Thus, while the series of pseudorandom digital data may be the same each time the same item of data is expanded, the final sequence of digital data--i.e. the exploded item of data--will be different each time.

CLPR:

cl-2  
2. The method defined in claim 1, wherein said first sequence of digital data is embedded in a different way during each successive execution of said expanding step.

CLPR:

3. The method defined in claim 1, wherein said embedding step includes the steps of obtaining a key and a random number generating algorithm which requires a key, and thereafter executing said random number generating algorithm with said key to produce said pseudorandom digital data.

CLPR:

13. The method defined in claim 1, wherein said embedding step is unique each time said packet is expanded.

CLPV:

cl-1  
(c) expanding the first sequence of digital data into a second sequence of digital data which is so large as to be inconvenient for permanent storage, said expanding step including the step of embedding said first sequence of digital data in a series of pseudorandom digital data which is substantially equal to 1-5 megabytes or more in length, such that said second sequence is substantially equal to 1.5 megabytes or more in length and is not compressible;